

**Notice of Allowability**

Application No.

09/761,557

Examiner

Richard Chang

Applicant(s)

AMIT, MATI

Art Unit

2616

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 10/13/2006.
2. ☒ The allowed claim(s) is/are 1-6, 9-15, 17 and 19-25.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |   |
|--|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application                     |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br>Paper No./Mail Date _____    | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                   |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material | 8. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance             |
|  | 9. <input type="checkbox"/> Other _____   |

## **DETAILED ACTION**

### **Response to Amendment**

1. Applicants' amendments and arguments, filed on 10/13/2006, with respect to Claims 1-6, 9-15, 17 and 19-25 have been fully considered and are persuasive. The 35U.S.C.103 rejections have been withdrawn. None of the previously cited reference teaches the Claims 1-6, 9-15, 17 and 19-25.

Claim 7 had been canceled.

### **Examiner's Amendment**

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment had been given in a telephone interview with Brian Carlson on 10/20/2006. The application has been amended for independent claims 1, 11, 17, and 20 as follows:

Art Unit: 2616

Claim 1 (currently amended) A communication device for a cable communications network, the communication device comprising: a first integrated circuit (IC) including one or more receivers and a first media access control (MAC) function, the said first MAC function being adapted to handle handling defragmentation, deconcatenation, ~~suppress~~ suppressing packet payload headers, and ~~perform~~ performing reverse payload header suppression; and a second IC including one or more transmitters and a second MAC function, said second MAC function encrypting packets, handling payload header suppression, and putting Ethernet packets inside a MPEG frame, wherein the first and second IC's are coupleable to a communications network for controlling downstream and upstream communications, respectively.

Claim 11 (currently amended) A communication device comprising: a fiber interface; an L2/L3 switch coupled to the fiber interface; a central processing unit (CPU) coupled to the L2/L3 switch; one or more transmitters coupled to the L2/L3 switch; and one or more receivers coupled to the L2/L3 switch; a first media access control (MAC) function coupled to the receiver, the said first MAC function being adapted to handle handling defragmentation, deconcatenation, ~~suppress~~ suppressing packet payload headers, and ~~perform~~ performing reverse payload header suppression; and a second MAC function, said second MAC function encrypting packets, handling payload header suppression, and putting Ethernet packets inside a MPEG frame coupled to the transmitter.

Art Unit: 2616

Claim 17 (currently amended) A data transmission device for a cable network, comprising: a plurality of first means for receiving data signals and controlling the receipt thereof with a corresponding first media access control (MAC) function, ~~the~~ said first MAC function ~~being adapted to handle~~ handling defragmentation, deconcatenation, ~~suppress~~ suppressing packet payload headers, and ~~perform~~ performing reverse payload header suppression; and a plurality of second means for transmitting data signals and controlling the receipt thereof with a corresponding second MAC function, said second MAC function encrypting packets, handling payload header suppression, and putting Ethernet packets inside a MPEG frame, wherein the data transmission device is coupleable to a communications network for controlling downstream and upstream communications with the plurality of first means and second means, respectively.

Claim 20 (currently amended) A method of controlling the receipt and transmission of data in a communications network, comprising: receiving data signals and controlling the receipt thereof with a first media access control (MAC) function, the said first MAC function handling defragmentation, deconcatenation, packet payload header suppression, and reverse payload header suppression of the data packets; and transmitting data signals and controlling transmission thereof with a second MAC function, said second MAC function encrypting packets, handling payload header suppression, and putting Ethernet packets inside a MPEG frame, wherein the first and second MAC functions reside in two separate integrated circuits (ICs).

Art Unit: 2616

The application has also been amended for dependent claims 9 and 19 as follows:

*In claim 9*, the dependence clause "...according to Claim 8" is changed to "...according to Claim 1".

In claim 19, the dependence clause "...according to Claim 18" is changed to "...according to Claim 17".

Claims 8, 16, 18 and 26 (after merging into the respective independent claims 1, 11, 17 and 20) have been canceled.

#### ***Allowable Subject Matter***

2. Claims 1-6, 9-15, 17 and 19-25 are allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Richard Chang whose telephone number is (571) 272-3129. The examiner can normally be reached on Monday - Friday from 8 AM to 5 PM.

Art Unit: 2616

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky Ngo can be reached on (571) 272-3139. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

*rkc*

rkc

Richard Chang  
Patent Examiner  
Art Unit 2616

  
RICKY Q. NGO  
SUPERVISORY PATENT EXAMINER